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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

SOURCE Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE  
CENTRAL INSTITUTE FOR ADVANCED MEDICINE, USSR

"Carbonic Anhydrase Activity in the Blood and in Some Tissues of the Body under Reduced Atmospheric Pressure," V. V. Strel'tsov, I. M. Khasen, Cent Inst Adv Med

"Byull Eksp'tl Biol i Med" Vol 21, No 4, 1946, pp 65-8

Human subjects and rabbits were exposed to altitudes of 5,000-8,000 meters for 1-3 hours, the rate of elevation being 18-20 meters/second. At 5,000 meters there is usually first a decrease in carbonic anhydrase (I) level of the blood, then, after 3 hours, an increase to 2-3 times normal values. At 6,000 meters a similar increase occurs within one hour. There is a simultaneous lowering in I activity of the gastric mucosa, inhibition of gastric secretion, and lowering of gastric acidity. At heights of 11,000-12,000 meters (with use of O-equipment) blood I activity was increased considerably in untrained individuals, while it remained normal in trained fliers. I index may be a useful test for ability of fliers to stand reduced barometric pressure.

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